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Waterjet 1991
Year Establishment



Waterjet 1997
corporation



WaterStone 1999



WaterProject 2000



U.S.A. Waterjet 2015



WATERJET WORLD



U.S.A. Waterjet

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The Machines Range

MODEL	CANTILEVER DESIGN		GANTRY DESIGN	
	PRIMA™ PRIMA LT	PRATICA™ PRATICA FB	CLASSICA® CLASSICA CL	SUPREMA® SUPREMA DX
22	625 x 625 mm 2' x 2'			
44	1.250 x 1.250 mm 4' x 4'	1.250 x 1.250 mm 4' x 4'	1.250 x 1.250 mm 4' x 4'	1.250 x 1.250 mm 4' x 4'
510	3.050 x 1.550 mm 10' x 5'	2.000 x 3.050 mm 6' 1/2 x 10'	1.800 x 3.400 mm 6' x 11'	1.600 x 3.350 mm 5' x 11'
610			2.000 x 3.400 mm 6' 1/2 x 11'	2.000 x 3.350 mm 6' 1/2 x 11'
612	4.000 x 1.550 mm 13' 1/2 x 5'	2.000 x 4.000 mm 6' 1/2 x 13' 1/2	2.000 x 4.000 mm 6' 1/2 x 13' 1/2	2.000 x 4.000 mm 6' 1/2 x 13' 1/2
620		2.000 x 6.100 mm 6' 1/2 x 20'		2.000 x 6.100 mm 6' 1/2 x 20'
812				2.500 x 4.000 mm 8' x 12'
820				2.500 x 6.100 mm 8' x 20'
1012				3.350 x 4.000 mm 10' x 13' 1/2'
1020				3.350 x 6.100 mm 10' x 20'
1040				3.350 x 12.200 mm 10' x 40'



CANTILEVER DESIGN



PRATICA FB

Flying Bridge 3 axis System with separate stainless steel tank



PRIMA LT

Flying Bridge 3 axis System with integrated stainless steel tank

GANTRY DESIGN



CLASSICA CL

Gantry 3-4-5 axis System with integrated stainless steel tank



SUPREMA DX

3, 4 and 5 axis Accurate Gantry Motion Systems with separate stainless steel tank

Compact and Portable System

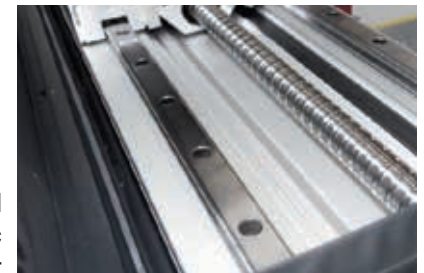


Touch Probe Sensor
with Anti-collision Device (optional)

LT 44

X = 1.250 mm Y = 1.250 mm Z = 180 mm	Net Cutting Area	X = 4' Y = 4' Z = 7"
1.500 mm x 1.520 mm	Inner Table Working Area	5' x 5'
2.100 mm x 2.000 mm x h 2.000 mm	Overall Dimensions	7' x 6' 1/2 x h 6' 1/2
0 - 10 mt / min	Rapid Speed	0 - 33' / min
1.500 Kg	Weight	3.350 lb
± 0,075 mm	Positioning Accuracy	± 0,003'
± 0,05 mm	Repeatability	± 0,002'
± 0,075 mm	Ball Bar Ø 300 mm	± 0,003'

3 axis **Flying Bridge** technology with Integrated Tank, **Ball Screws** motion system with automatic lubrication and integrated electrical cabinet

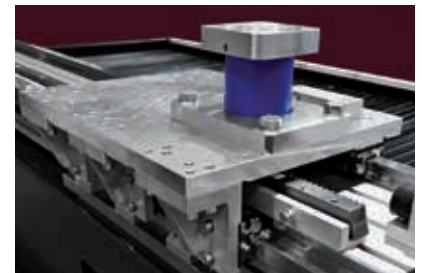




LT 510

X = 3.050 mm Y = 1.550 mm Z = 180 mm	Net Cutting Area	X = 10' Y = 5' Z = 7"
3.670 mm x 1.850 mm	Inner Table Working Area	12' x 6'
4.300 mm x 2.300 mm x h 2.000 mm	Overall Dimensions	14' x 7' 1/2 x h 6' 1/2
0 - 10 mt / min	Rapid Speed	0 - 33' / min
2.500 Kg	Weight	5.500 lb
± 0,1 mm	Positioning Accuracy	± 0,004'
± 0,075 mm	Repeatability	± 0,003'
± 0,1 mm	Ball Bar Ø 300 mm	± 0,004'

3 axis NC **Flying Bridge** technology with Integrated Tank, **Ball Screws** and rack and pinion motion system with automatic lubrication





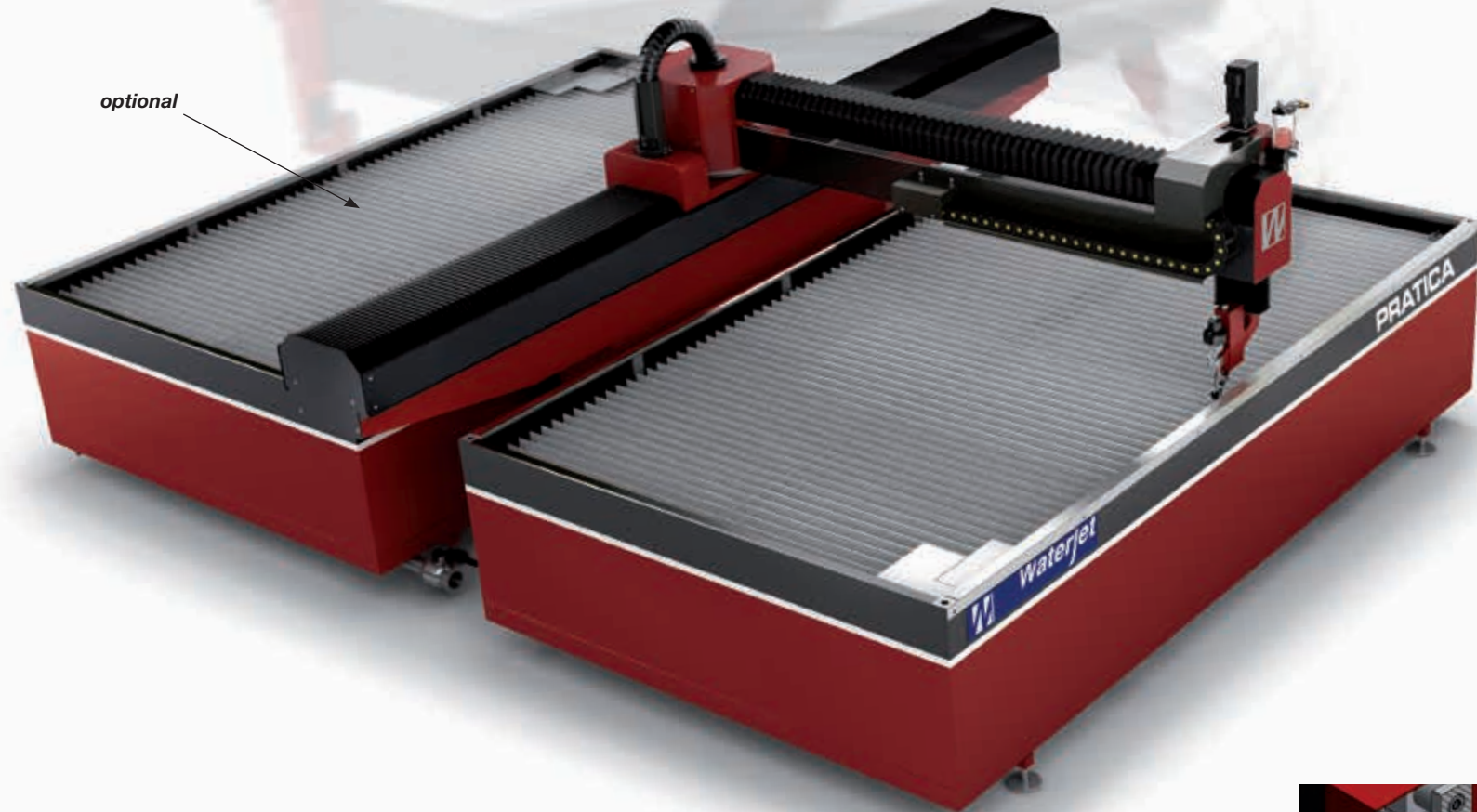
Separate Stainless Steel Tank with **Ball Screws** motion system with automatic lubrication

3 axis Numerical Control System

FB 510

X = 3.050 mm Y = 2.000 mm Z = 180 mm	Net Cutting Area	X = 10' Y = 6' 1/2' Z = 7"
3.650 mm x 2.240 mm	Inner Table Working Area	12' x 7' 1/2'
4.200 mm x 3.000 mm x h 1.800 mm	Overall Dimensions	14' x 10' x h 6' 1/2'
0 - 12 mt / min	Rapid Speed	0 - 40' / min
3.000 Kg	Weight	7.500 lb
± 0,075 mm	Positioning Accuracy	± 0,003'
± 0,05 mm	Repeatability	± 0,002'
± 0,075 mm	Ball Bar Ø 300 mm	± 0,003'

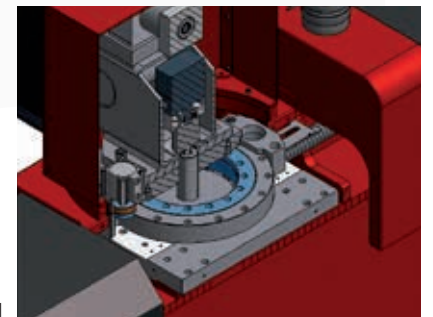
Revolving Flying Bridge System (Optional)



FBR 510

Double Table with automatic revolving Flying Bridge system which allows an easy and safe material loading and offloading without any interruption of the cutting process

REVOLVING SYSTEM





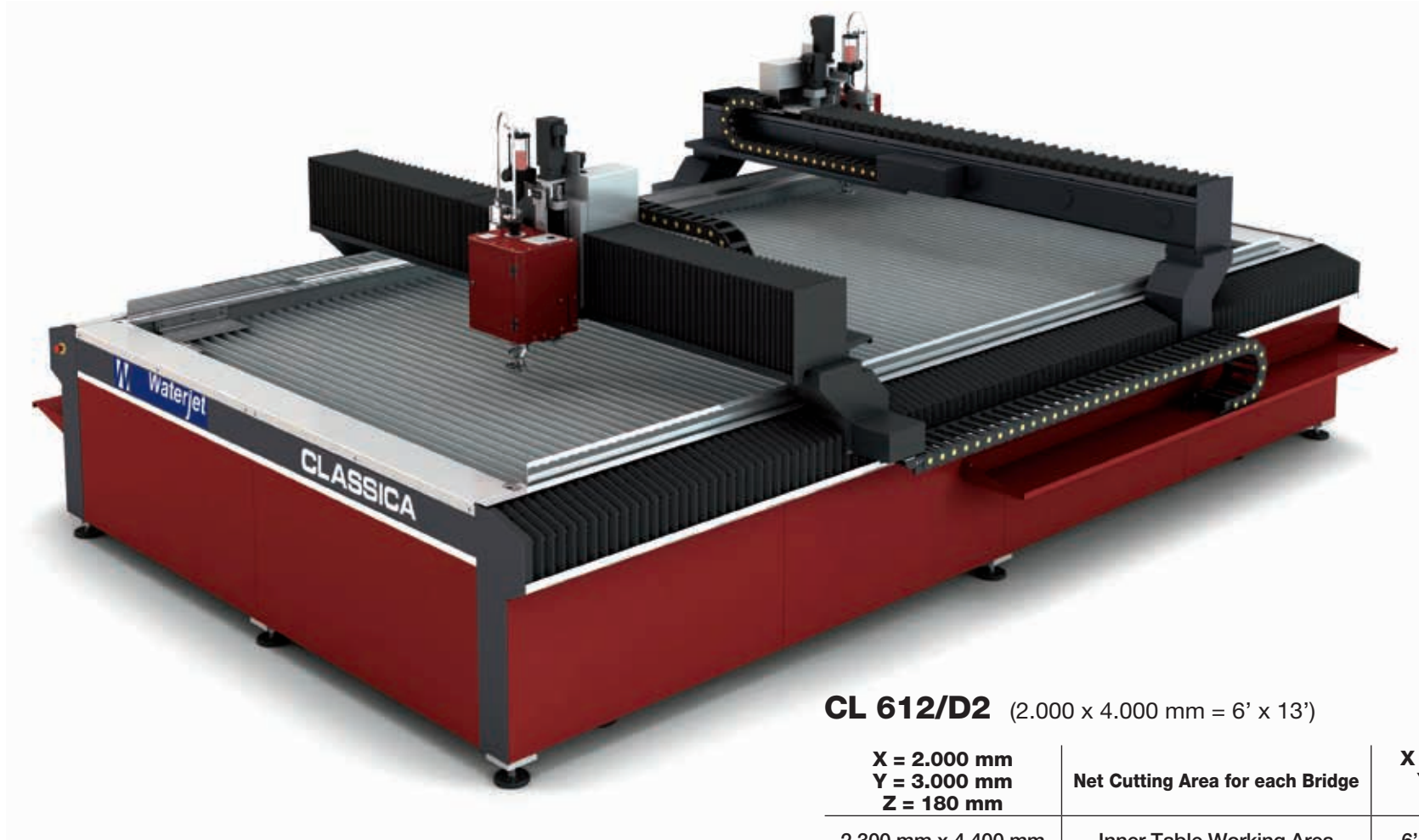
CL 510

X = 3.400 mm Y = 1.800 mm Z = 180 mm	Net Cutting Area	X = 11' Y = 6' Z = 7'
3.675 mm x 2.100 mm	Inner Table Working Area	12' x 7'
4.500 mm x 2.300 mm x h 1.800 mm	Overall Table Dimensions	15' x 7' 1/2 x h 6' 1/2
0 - 30 mt / min	Rapid Speed	0 - 100' / min
3000 Kg	Weight	6.700 lb
± 0,075 mm	Positioning Accuracy	± 0,003'
± 0,05 mm	Repeatability	± 0,002'
± 0,075 mm	Ball Bar Ø 300 mm	± 0,003'



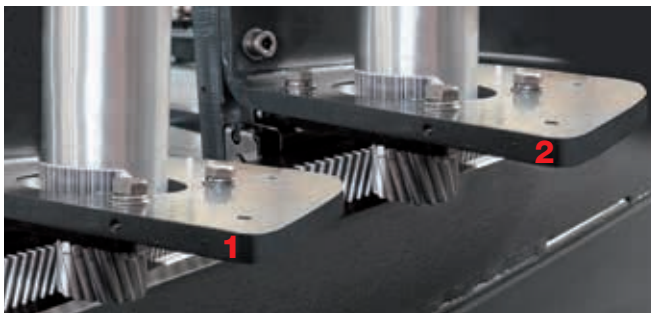
Stainless Steel Tank and 3 axis NC gantry technology with helical **rack and pinion** motion system with automatic lubrication

Double Independent Bridge



CL 612/D2 (2.000 x 4.000 mm = 6' x 13')

X = 2.000 mm Y = 3.000 mm Z = 180 mm	Net Cutting Area for each Bridge	X = 6' 1/2' Y = 10' Z = 7'
2.300 mm x 4.400 mm	Inner Table Working Area	6' 1/2 x 15'
4.500 mm x 2.300 mm x h 1.800 mm	Overall Table Dimensions	15' x 7' 1/2 x h 6' 1/2
0 - 30 mt / min	Rapid Speed	0 - 100' / min
4000 Kg	Weight	8.900 lb
± 0,075 mm	Positioning Accuracy	± 0,003'
± 0,05 mm	Repeatability	± 0,002'
± 0,075 mm	Ball Bar Ø 300 mm	± 0,003'



Stainless Steel Tank and 3 axis NC gantry technology with helical **rack and pinion** motion system with automatic lubrication



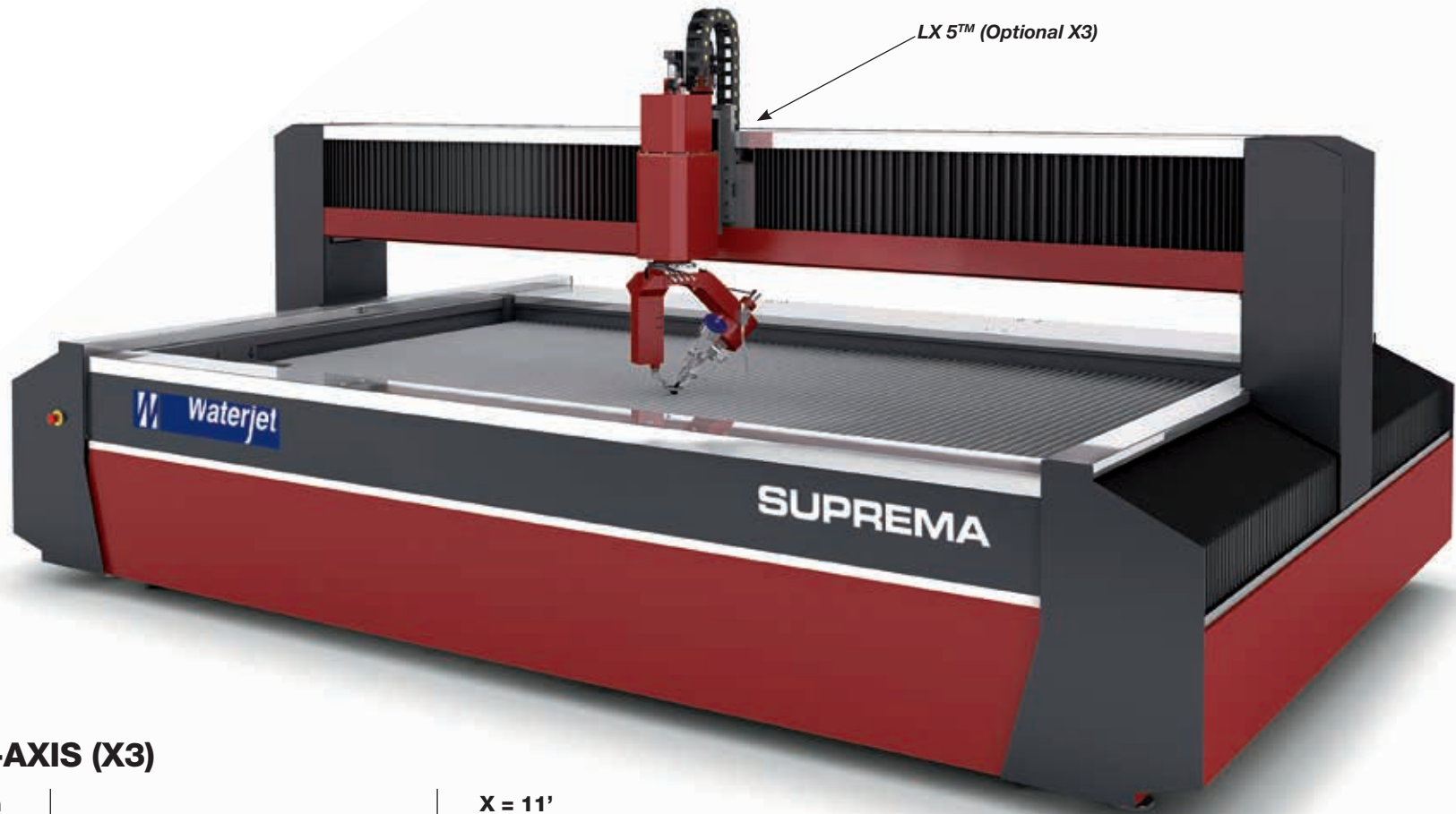
DX 510 5-AXIS (X2)

X = 3.350 mm Y = 1.600 mm Z = 180 mm d= Infinite	Net Cutting Area	X = 11' Y = 5' Z = 7" d= Infinite
3.600 mm x 1.850 mm	Inner Table Working Area	12' x 6'
4.800 mm x 2.300 mm x h 1.800 mm	Overall Table Dimensions	16' x 7' 1/2" h x 6'
0 - 20 mt / min	Rapid Speed	0 - 67' / min
5.000 Kg	Weight	11.000 lb
± 0,05 mm	Positioning Accuracy	± 0,002'
± 0,025 mm	Repeatability	± 0,001'
± 0,05 mm	Ball Bar Ø 300 mm	± 0,002'



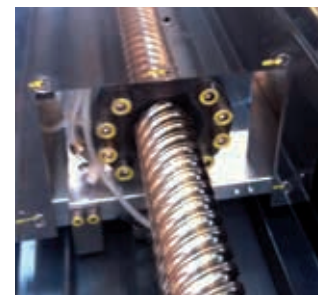
5 axis 2D "Edge 5™" option with I.T.C™ Technology,
Touch Probe, Laser Pointer and Vacuum Assist.
Separate **Stainless Steel Tank** and **Ball Screws**
motion system with automatic lubrication

5 Axis 3D System



DX 510 5-AXIS (X3)

X = 3.350 mm Y = 1.500 mm Z = 300 mm C = Infinite (option) A = ±69° (±90°)	Net Cutting Area	X = 11' Y = 5' Z = 12' C = Infinite (option) A = ±69° (±90°)
3.600 mm x 1.850 mm	Inner Table Working Area	12' x 6'
5.000 mm x 2.300 mm x h 2.100 mm	Overall Table Dimensions	17' x 7' 1/2 x h 7'
0 - 20 mt / min	Rapid Speed	0 - 67' / min
5.500 Kg	Weight	12.000 lb
± 0,05 mm	Positioning Accuracy	± 0,002'
± 0,025 mm	Repeatability	± 0,001'
± 0,05 mm	Ball Bar Ø 300 mm	± 0,002'



5 axis 3D with Integrated I.T.C™ Technology
Separate **Stainless Steel Tank** and **Ball Screws**
motion system with automatic lubrication

SPECIAL CUSTOMIZED MACHINES:
Single or Double Bridge, with multiple heads



**WATERJET AND
PLASMAJET HEADS (option)**

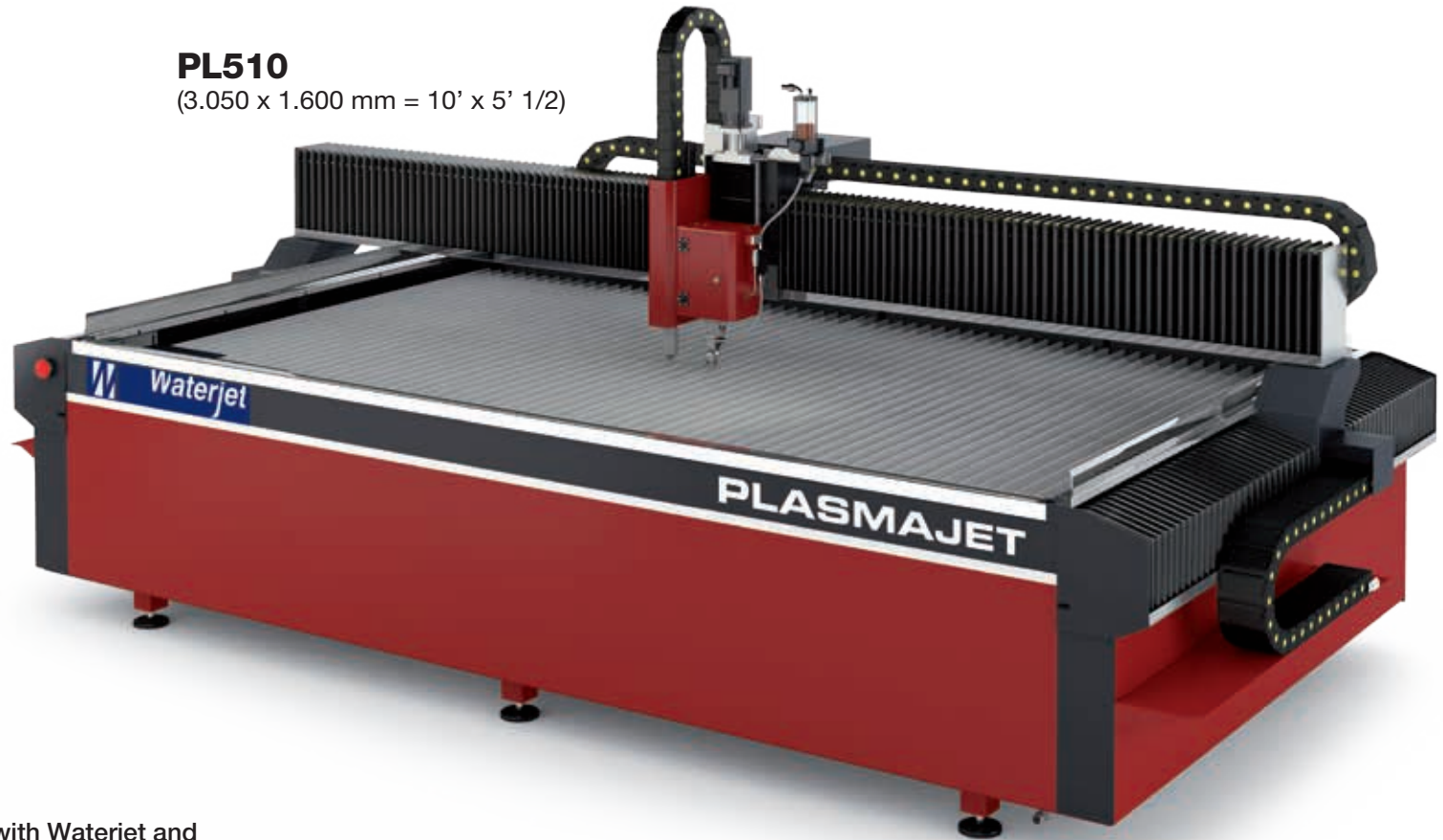
Double independent motorized Axis
for Waterjet or Plasmajet

DXD 1240

X = 4.000 mm Y = 12.200 mm Z = 180 mm	Net Cutting Area	X = 13' Y = 40' Z = 7'
4.500 mm x 12.800 mm	Inner Table Working Area	15' x 42'
5.700 mm x 15.000 mm x h 2.100 mm	Overall Table Dimensions	18' x 50' x h 7'
0 - 30 mt / min	Rapid Speed	0 - 100' / min
12.000 Kg	Weight	26.000 lb
± 0,08 mm	Positioning Accuracy	± 0,003'
± 0,05 mm	Repeatability	± 0,002'
± 0,08 mm	Ball Bar Ø 300 mm	± 0,003'



PL510
(3.050 x 1.600 mm = 10' x 5' 1/2')



Single Axis with Waterjet and Plasma heads integrated

HPR 130XD (Option 260 XD)

Mild steel cut capacity

Dross free	16 mm (5/8")
Production (pierce)	32 mm (1 1/4")
Rough cut	38 mm (1 1/2")

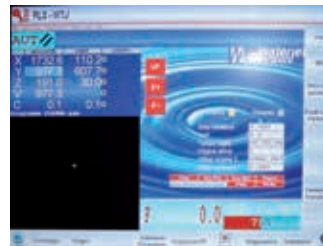
Stainless steel cut capacity

Production (pierce)	20 mm (3/4")
Rough cut	25 mm (1")

Aluminum cut capacity

Production (pierce)	20 mm (3/4")
Rough cut	25 mm (1")

Double NC Human Interface



HMI WATERJET



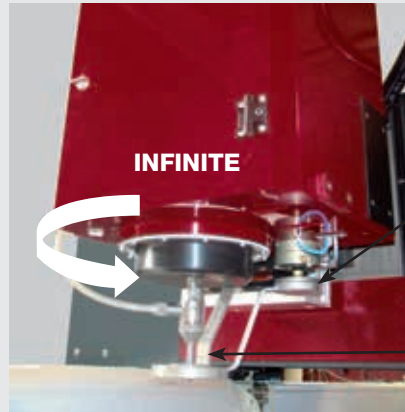
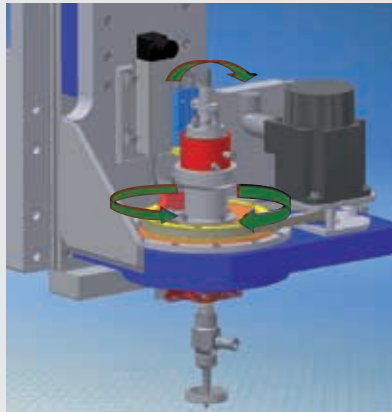
HMI PLASMA



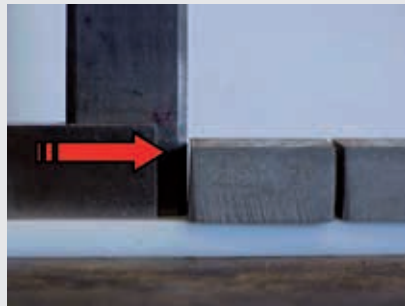
Output current **130 A**
 Power supply **18,8 kW**
 Gas: **Plasma gas O2, N2, F5*, H35**, Air, Ar**
 Gas pressure : **8,3 bar**
 (automatic gas console)

4 AXIS

EU Patent EU N. DE 20 2007 012 572 U1



With ITC Compensation



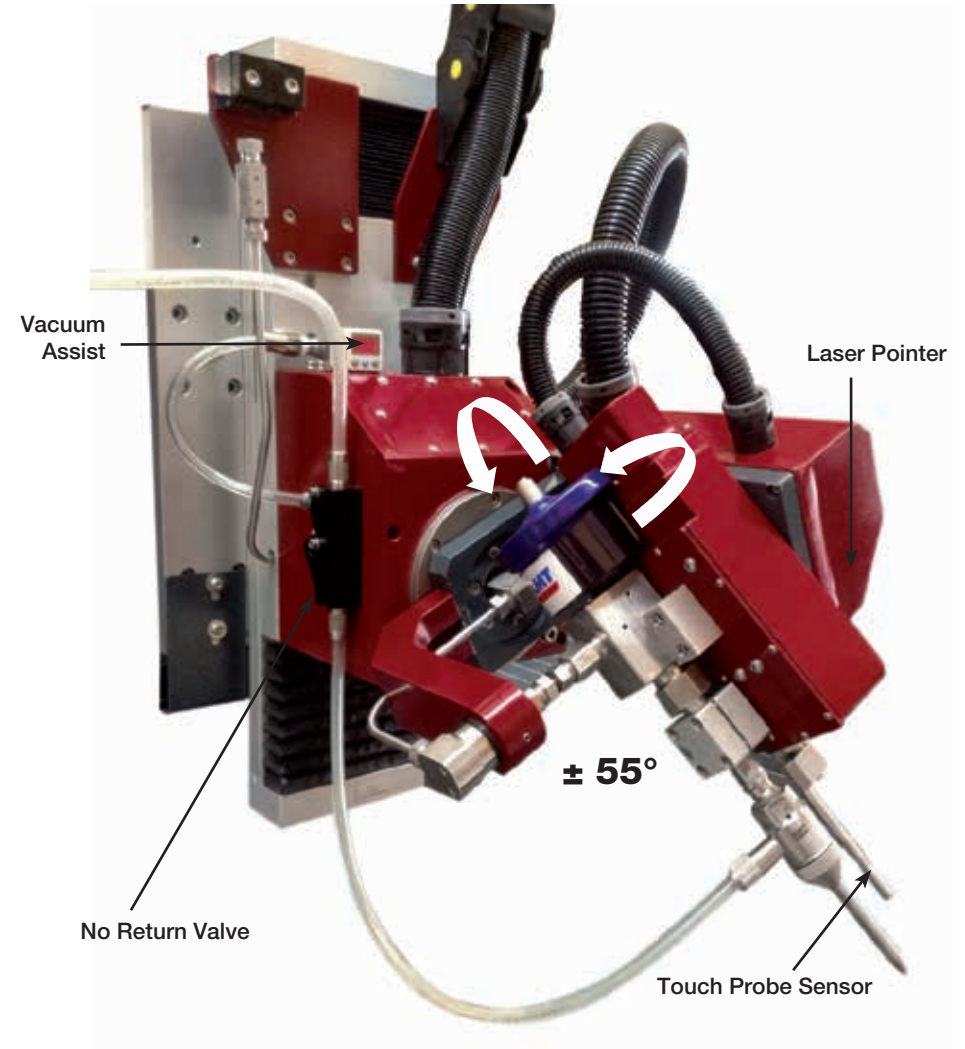
Without ITC Compensation

I.T.C™

The **I.T.C™ System** compensates for the natural taper that is produced by the water jet while cutting. The **I.T.C™** enables the operator to enhance the squareness of the cut material, top to bottom, while allowing highest possible cutting feed rates. The water jet position is compensated up to 2 degrees, via the NC control of the motion system. This ensures a high quality part at low cost.

During the **I.T.C™** compensation, the jet is also directed towards the piece in order to reduce the “Tail Delay” effect as well as the acceleration-deceleration ramp times around the corners, for faster and more economical cutting cycles.

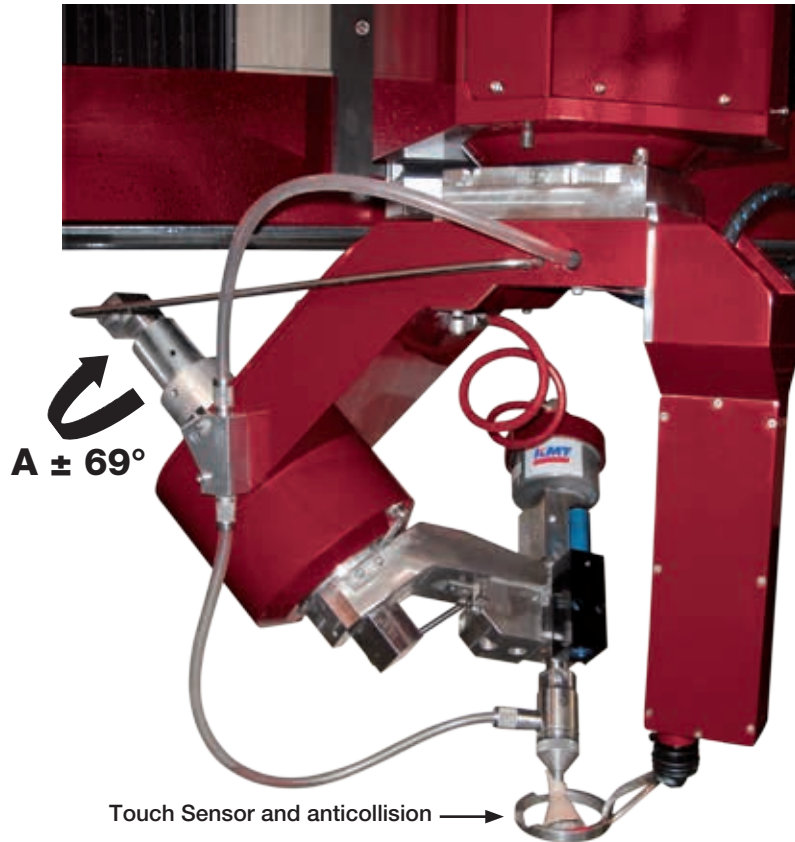
5 AXIS 2D



EDGE 5™

ITC technology with 2D 5 axis Bavel $\pm 55^\circ$ and touch probe sensor for accurate position calibration

5 AXIS 3D



LX 5™

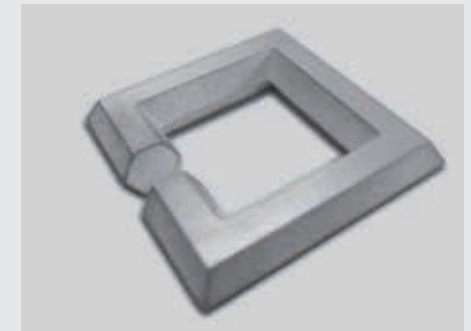
The **five-axis Evolution 3D** cutting system automatically maintains a constant distance between the nozzle and the material, through the use of a touch probe device. This is also done while the cutting head is rotating. The interpolation of the axis can reach up to $\pm 69^\circ$ (optional 90°), in any direction.

It is also possible to interpolate in 3D all axis simultaneously, monitoring the cut profile with a laser pointer, integrated on to the cutting head.

6 AXIS



Tube cutting 6 axis control

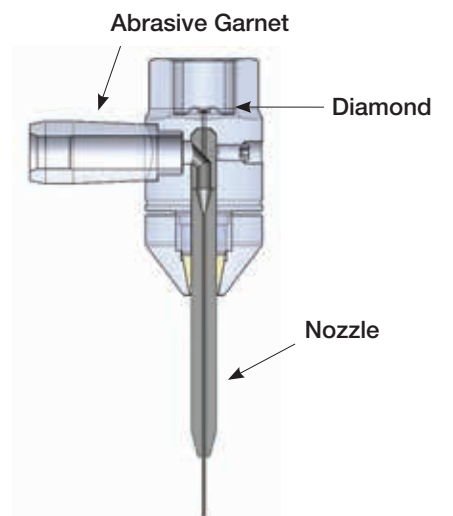
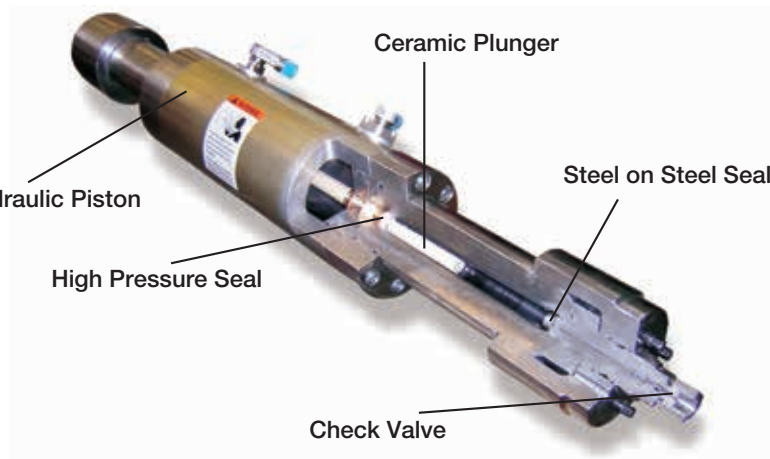
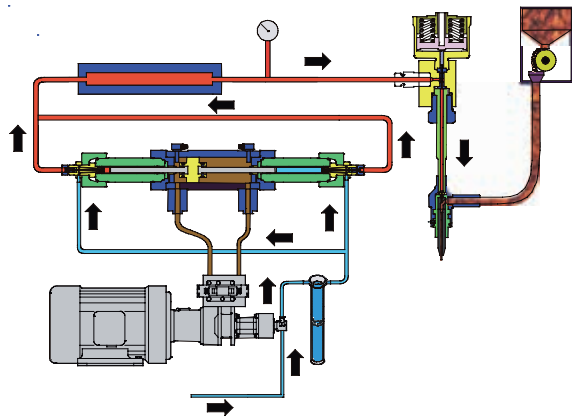


TECHNICAL SPECIFICATION

- Innovative design, aluminum casting
- **PATENTED INFINITE ROTATION** system with 4 concentric swivlers
- **High Pressure Water, Air, Abrasive, Electrical** (Optional)
- Laser pointer for 2D and 3D visual contouring control
- **3D Cam Software with I.T.C.™ (Intelligent Tapering Control™)**

SPECIAL FEATURES

- **Integrated Touch Probe and anticollision System, Laser Pointer and Vacuum Assist Sensor**



The intensifier pump produces a water jet pressure up to **90,000 PSI**. The water jet is pushed through a self-aligning cutting head managed by a NC control system: the water, ejected through a gauged orifice, at **4 times the speed of sound**, can be mixed with abrasive in order to cut shapes in any material, up to a thickness of 300 mm (12 inches).



STREAMLINE SLVI 50



NEOLINE SLIV 40

STREAMLINE SLVI

Model	Pressure	Power	Water Consumption	Orifice Size	Number of Cutting Heads
SLVI 30	4.130 Bar	30 HP - 22 KW	2,8 lt/min - 0,7 gal/min	0,25 mm - 0,010"	1
SLVI 50	4.130 Bar	50 HP - 37 KW	3,8 lt/min - 0,9 gal/min	0,35 mm - 0,014"	1 - 2

NEOLINE SLIV

Model	Pressure	Power	Water Consumption	Orifice Size	Number of Cutting Heads
NE 40	3.800 Bar	40 HP - 30 KW	3,1 lt/min - 0,8 gal/min	0,3 mm - 0,012"	1 - 2

Model	Power	Water Consumption	Orifice Size	Number of Cutting Heads
PRO3 60	60 HP - 45 KW	2,5 lt/min - 0,61 gal/min	0,25 mm - 0,010''	1 - 2
PRO3 125	125 HP - 93 KW	5,5 lt/min - 1,37 gal/min	0,35 mm - 0,014''	1 - 2 - 4

STREAMLINE PRO3 125

ADVANTAGES

- ◆ **Mach Speed** increase from 3 to 4 of the supersonic Jet speed
- ◆ Increase cutting power density by **83%**
- ◆ Possibility to cut materials with **pure water** only (no abrasive)
 - 3 mm (1/8 inch) = aluminum
 - 1 mm (1/24 inch) = titanium
- ◆ Increase **Max. cutting thickness**
 - Titanium up to 10" = 250 mm
 - Steel up to 12" = 300 mm
 - Aluminum up to 16" = 400 mm
- ◆ Increased cutting speeds: up to **250%** with identical abrasive mass flow rate
- ◆ Reduced abrasive consumption: **30%** less
- ◆ Reduced kerf and higher cut **quality**, up to **3 times better** with identical cutting speed (surface finish)
- ◆ Ability to cut harder materials such as **ceramics**

12 inch thick steel



4 inch Carbon Steel



Numerical Control S510

- 1) The **Graphic-Window** shows the shape of the work piece and the cutting path. It can be used to define the start point for the restart function.
- 2) The Display-Bar shows Position, Time, Offset, Feedrates and Override data.
- 3) Operational Functions for the different Modes.
- 4) Main menu switches for the different Modes.
- 5) Main Switch Board.
- 6) USB Port.
- 7) Override.
- 8) **Teleassistance**.



LANTEK 2D Sharp & Expert Cut (optional)

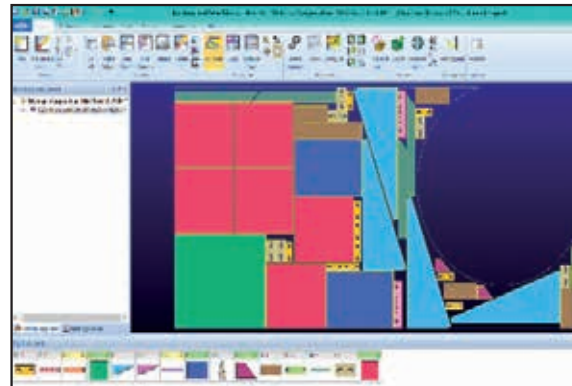
Sharp is a CAD/CAM solution designed to automate the programming of Waterjet machines.

Within the same program environment, you can design or import a part by DXF , consult the plate warehouse, perform manual or automatic nesting, execute manual or automatic cutting sequences, generate the NC program and calculate time and costs. Expert Cut Plus allows you to easily configure and manage multi plates.

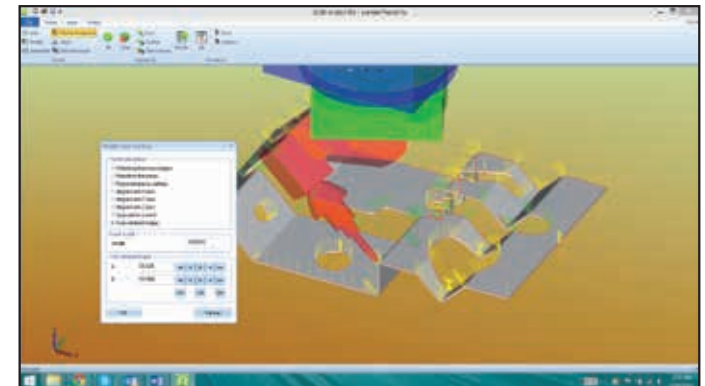
Lantek Expert Cut Plus provides:

- Automatic lead-ins/lead-outs
- Water jet technology tables
- Speed reduction in corners
- Support of technological elements such as chamfers (bevels), loops and bridges
- True-shape nesting, including parts in parts

LANTEK 2D



LANTEK Flex 3D 5X



LANTEK Flex 3D 5X

Lantek Flex 3D 5X is a full featured application for the automatic programming of 5 axis machines Waterjet technologies

Technical features:

- Standard solids and surfaces supported formats: SAT, IGES, VDA, STEP, Parasolid
- Modules for supporting formats of Catia, Solidworks, Solid Edge, Inventor, NX And Proe (Creo Elements)
- Automatic detection of the part cutting contour and thickness
- Multiple possibilities to change head position in each point
- Lead-ins, lead-outs and micro-joints/tabs
- Simulation of complete working environment: part, table, fixtures, head, etc.
- Collision check and automatic avoidance of collisions automatically generates the fixtures necessary for positioning the part correctly on the machine table

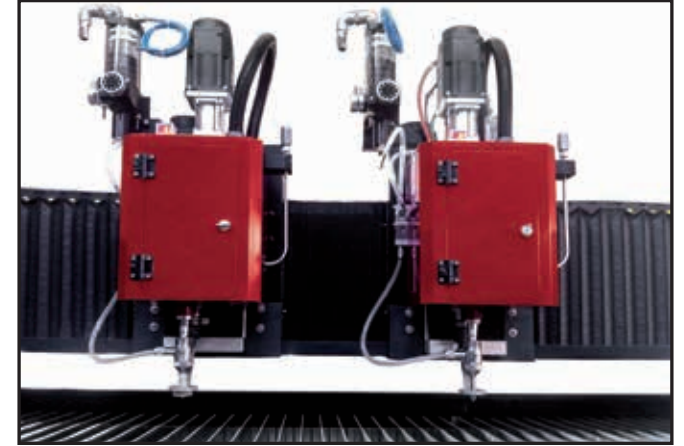
MAIN ACCESSORIES



Touch Probe Sensor with Anticollision, Laser Pointer, and Vacuum Assist



Pre-piercing and Counter sink device



Multiple Heads System

OPTIONAL EQUIPMENT



Automatic Sludge Removal Equipment with or without Submerge Cutting System



Wars: Semi automatic abrasive removal System



1 Ton Automatic Pressurized Abrasive Tank

Applications

METALS AND PLASTIC MATERIALS



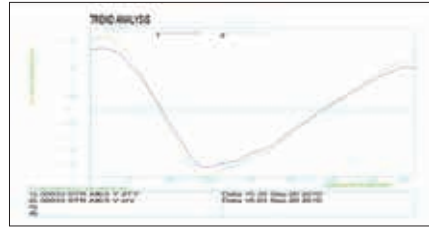
STONE AND CERAMIC MATERIALS



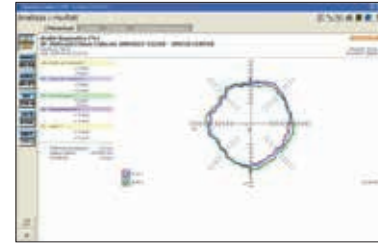
GLASS AND CRYSTAL



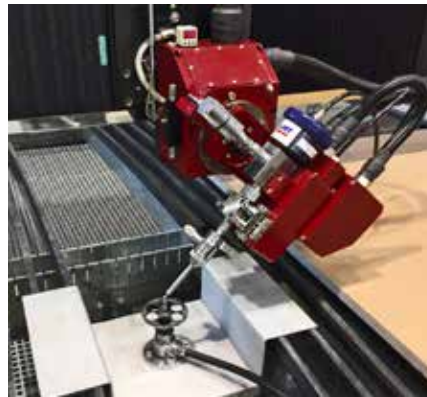
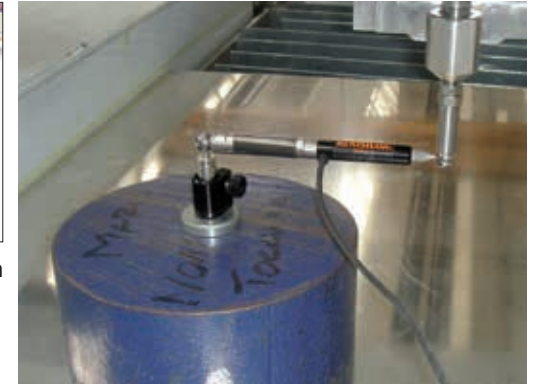
100% Quality Control



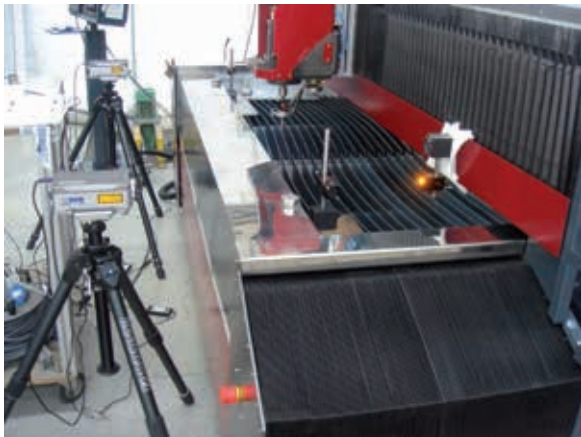
Renishaw Laser Straightness inspection and verification



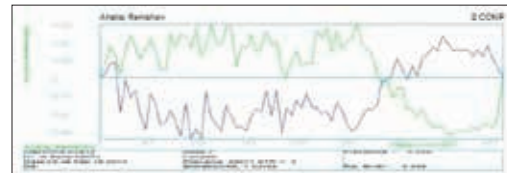
Ball Bar inspection and verification



EDGE 5 Calibration Automatic 5 Axis Calibrating System by a special NC cutting routing and device



Double Renishaw Laser inspection and verification of Positioning Accuracy and Compensation



Benchmark cut for final verification

TEST FINALE DI TAGLIO		Waterjet Corporation	
CLIENTE	BOOM		
Modello	BB11-0412		
Pezzo n.1		Pezzo n.2	
Quota	Inch / mm	Quota	Inch / mm
A	3,013 / 76,52	A	3,010 / 76,45
B	3,013 / 76,52	B	3,010 / 76,45
C	1,491 / 37,88	C	1,491 / 37,87
D	1,491 / 37,87	D	1,491 / 37,88
E	0,891 / 22,63	E	0,891 / 22,64
F	0,491 / 12,47	F	0,491 / 12,48
G	NC / NC	NC	NC / NC
H	NC / NC	NC	NC / NC
I	NC / NC	NC	NC / NC
L	NC / NC	NC	NC / NC
M	NC / NC	NC	NC / NC
DATI e TOLLERANZE INCHIESTE			
Posizionare il mandrillo PNC-2 a partire da: livello 0 (tabella 2) con precisione di:		± 0,05mm con errore (max) Range 0,10 mm	
Revisione: Primo lot		Esigete da:	
Posizione	X Negativo Y Positivo Z Negativo	Data: 23/10/2008 Logo:	Di:



Machine Tool Engineering, Manufacturing

PATENT I.T.C.™
DE 20 2007 012 572 U1



PATENT (5 axis)
CH 701 319 A2



Waterjet Corporation's Engineering Department utilizes 3D software for designing all machine components and assemblies.

7 CONSECUTIVE YEARS BIGGEST GLOBAL KMT OEM 2009 - 2015



Assembling Line and Process



The Quality Control respects **ISO 9001-2008** and guarantees the **CE** mark for all components produced and for all complete equipment. A Final QC document and a bench mark cutting test are always supplied together with the machine prior to shipping to certify the accuracy and repeatability tolerances really measured respect those guaranteed by the Factory.

WaterStone is an **After Sales Service Center** exclusively focused on Waterjet cutting technology, providing professional and competent technical support to all waterjet users.

A customer oriented approach enables comprehensive technical assistance while guaranteeing maintenance services through highly skilled technicians.

The supply of genuine parts, components and accessories for Waterjet cutting machines completes Waterstone's range of services.

Waterstone continuously expands its product range, with ever expanding inventory coupled with high quality services.

Services offered by our Customer Service Team include:

- Technical Assistance In and Out of Warranty
- Online Tele-Assistance
- Supply of Genuine Consumable and Spare Parts
- Complete Waterjet Machine Range Commissioning and Training
- CNC and Software Upgrades
- Preventive Maintenance Contracts



Top Quality Abrasive Garnex™



Original Spare parts



Installation and maintenance

CUSTOMER SERVICE

Waterjet USA L.L.C.

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